System Test Plan for BankCalculator

The text in bold in the **Description** column represents the test inputs to the program. You can stop program execution by pressing Ctrl+C. You will need to fill in your Actual Results for the given tests and write the six additional tests, including actual results (highlighted in yellow). Be sure to add your name as the author for the tests you write.

Test ID	Description	Expected Results	Actual Results
testMenu Author: Dr. Balik	*Preconditions:* BankCalculator program started **<ctrl + c to exit>**	Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option:	Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option:
testInvalidOptionWithMoreThanOneCharacter Author: Dr. Balik	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: **loan** Invalid option **<ctrl + c to exit>**	Invalid option Menu is redisplayed	Invalid option Menu is redisplayed

testLoanInterest8To9
 	
Author: Dr. Balik
	Preconditions: BankCalculator program started
	
	Bank Calculator - Please choose an option.
	
	L - Loan
	D - Deposit
	Q - Quit
	
	Option: L
	Amount: 25000
	Minimum interest rate: 8
	Maximum interest rate: 9
	
	<ctrl + c to exit>
		``
		                    Monthly Payment
		Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos
		-------- ------ ------ ------ ------ ------ ------
		   8% 2174.71 1130.68 783.41 610.32 506.91 438.33
		   9% 2186.29 1142.12 794.99 622.13 518.96 450.64
		``
		
		Menu is redisplayed
			``
			                    Monthly Payment
			Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos
			-------- ------ ------ ------ ------ ------ ------
			   8% 2174.71 1130.68 783.41 610.32 506.91 438.33
			   9% 2186.29 1142.12 794.99 622.13 518.96 450.64
			``
			
			Menu is redisplayed

Test ID	Description	Expected Results	Actual Results
testDepositInterest3Years5 Author: Dr. Balik	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: D Amount: 2345 Years: 5 Minimum interest rate: 3 Maximum interest rate: 3 **<ctrl + c to exit>**	```\n Final Amount\n No Monthly Continuous\nInterest Compounding Compounding Compounding\n-------- ----------- ----------- -----------\n 3% 2696.75 2723.99 2724.50\n``` Menu is redisplayed	```\n Final Amount\n No Monthly Continuous\nInterest Compounding Compounding Compounding\n-------- ----------- ----------- -----------\n 3% 2696.75 2723.99 2724.50\n``` Menu is redisplayed
testNegativeLoanAmount Author: Eric Samuel	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: L Amount: -1000 Invalid value **<ctrl + c to exit>**	Invalid value Menu is redisplayed	Invalid value Menu is redisplayed
testDepositAmountValidBoundary Author: Eric Samuel	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: D Amount: 1 Years: 10	```\n Final Amount\n No Monthly Continuous\nInterest Compounding Compounding Compounding\n-------- ----------- ----------- -----------\n 3% 1.30 1.35 1.35\n``` Menu is redisplayed	```\n Final Amount\n No Monthly Continuous\nInterest Compounding Compounding Compounding\n-------- ----------- ----------- -----------\n 3% 1.30 1.35 1.35\n``` Menu is redisplayed

	Minimum interest rate: 3 Maximum interest rate: 3 **<ctrl + c to exit>**		
testInvalidLoanMinimumInterestRateBoundary Author: Eric Samel	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: L Amount: 1000 Minimum interest rate: 0 Invalid value **<ctrl + c to exit>**	Invalid value Menu is redisplayed	Invalid value Menu is redisplayed
testCombinationNumberAndLettersOptionInput Author: Eric Samuel	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: sdli293 Invalid option **<ctrl + c to exit>**	Invalid option Menu is redisplayed	Invalid option Menu is redisplayed
testLoanInterest1to2 Author: Eric Samuel	*Preconditions:* BankCalculator program started Bank Calculator - Please choose an option. L - Loan D - Deposit Q - Quit Option: L Amount: 1000 Minimum interest rate: 1 Maximum interest rate: 2 **<ctrl + c to exit>**	Monthly Payment Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos -------- ------ ------ ------ ------ ------ ------ ------ 1% 83.79 42.10 28.21 21.26 17.09 14.32 2% 84.24 42.54 28.64 21.70 17.53 14.75 Menu is redisplayed	Monthly Payment Interest 12 mos 24 mos 36 mos 48 mos 60 mos 72 mos -------- ------ ------ ------ ------ ------ ------ ------ 1% 83.79 42.10 28.21 21.26 17.09 14.32 2% 84.24 42.54 28.64 21.70 17.53 14.75 Menu is redisplayed

| testDepositLetterInputMaximumInterestRate

Author: Eric Samuel | *Preconditions:* BankCalculator program started

Bank Calculator - Please choose an option.

L - Loan
D - Deposit
Q - Quit

Option: D
Amount: 1000
Years: 2
Minimum interest rate: 1
Maximum interest rate: aax
Invalid value

<ctrl + c to exit> | Invalid value

Menu is redisplayed | Invalid value

Menu is redisplayed |